<u>CLAIMS</u>:

1	1. A method for processing raw data streams carrying a plurality of raw data objection			
2	containing information which is subject to periodic updates, the method comprising the steps of:			
3	receiving a raw data object carried on a raw data stream input;			
4	determining an object type of the raw data object;			
5	generating a formatted data object based on the contents of the raw data object by			
6	applying a set of formatting rules;			
<u>1</u> 7	determining if a prior version of the formatted data object is present in an object storage			
7 7 8 8 9 mm - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	pool;			
# 11 9	if a prior version is present in the object storage pool:			
⊒ 10 □]	determining a data differential between the formatted data object and the prior			
	version;			
11	updating the prior version of the formatted data object to correspond with the			
13	generated formatted data object; and			
14	broadcasting the data differential on an output broadcast data channel;			
15	otherwise, if no prior version is present in the object storage pool;			
16	providing the formatted data object to subscriber processes; and			
17	storing the formatted data object in the object storage pool.			
1	2. The method of claim 1, wherein the formatted data object stored in the object			
2	storage nool has an associated sequence number:			

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- the step of updating comprising the step of incrementing the sequence number of the 3
- formatted data object; 4
- the step of broadcasting the data differential including broadcasting the sequence number 5
- associated with the formatted data object. 6
- 3. The method of claim 1, wherein the step of providing the formatted data object 1
- 2 comprises broadcasting the formatted data object on the output broadcast channel.
 - 4. The method of claim 1, wherein the broadcast channel is selected from a plurality of broadcast channels according to the object type.
 - 5. The method of claim 1, wherein the applied formatting rules are selected in accordance with the determined object type.
 - 6. The method of claim 1, further comprising the step of translating the raw data object into a raw event comprising at least one name-value pair prior to performing the steps of determining an object type of the raw data object and generating a formatted data object.
 - 7. The method of claim 1, further comprising the steps of:
- validating the contents of the raw data object; and 2
- 3 upon a failed validation, preventing subsequent broadcast of the data differential or
- 4 formatted data object derived from the respective raw data object.

1	8. The method of claim 1, further comprising the steps of:			
2	receiving a particular formatted data object at a subscriber process;			
3	storing the received formatted data object in a database associated with the subscriber			
4	process;			
5	receiving at the subscriber process a data differential for the particular formatted object			
6	via the broadcast data channel; and			
7	updating the stored formatted data object in accordance with the received data			
8	differential.			
1	9. The method of claim 8, wherein the broadcast data channel is received by a			
1 min 2	plurality of subscriber processes.			
	10. The method of claim 8, wherein the subscriber processes receives a plurality of			
1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	broadcast channels.			
1	11. The method of claim 8, further comprising the step of communicating information			
2	about the formatted data object stored in the subscriber database to a remote location.			
1	12. The method of claim 1, wherein the raw data object comprises information related			
2	to a financial product offering.			

1	13. A method for processing a raw data stream generated by a financial product
2	provider and carrying a plurality of raw data objects containing information related to financial
3	product offerings and subject to periodic updates, the method comprising the steps of:
4	receiving a raw data object carried on a raw data stream input;
5	determining an object type of the raw data object;
6	generating a formatted data object based on the contents of the raw data object by
7	applying a set of formatting rules selected in accordance with the determined object type;
8	determining if a prior version of the formatted data object is present in an object storage
8 9 10	pool;
10	if a prior version is present in the object storage pool:
11	determining a data differential between the formatted data object and the prior
12	version;
12	updating the prior version of the formatted data object to correspond with the
14 14	generated formatted data object; and
15	incrementing a sequence number associated with the formatted data object; and
16	broadcasting the data differential and the sequence number on an output broadcast
17	data channel selected from a plurality of broadcast channels according to the object type;
18	otherwise, if no prior version is present in the object storage pool;
19	providing the formatted data object to subscriber processes; and
20	storing the formatted data object and an associated initial sequence number in the
21	object storage pool.

1	14. The method of claim 13, wherein the step of providing the formatted data object			
2	comprises broadcasting the formatted data object on the output broadcast channel.			
1	15. A system for processing raw data streams carrying a plurality of raw events			
2	containing information which is subject to periodic updates, the system comprising:			
3	an information manager receiving the raw data streams as input;			
4	a processing database connected to the information manager and having object typing and			
<u> </u>	formatting rules stored therein; and			
5 6 7 8	an object storage pool connected to the information manager;			
≒ <u>i</u> <u>+</u> 7	7 the information manager configured to:			
## 8 ## 8	receive a raw data object carried on a particular raw data stream input;			
= 9	identify an object type of the raw data object in accordance with the object typing			
10	0 rules;			
9 11 10 11 11 11 11 11 11 11 11 11 11 11	generate a formatted data object based on the contents of the raw data object by in			
12				
13	determine if a prior version of the formatted data object is present in the object			
14	storage pool and in response to a negative determination:			
15	(a) provide the formatted data object to subscriber processes, and			
16	(b) store the formatted data object in the object storage pool.			
17	otherwise, in response to a negative determination:			
18	(a) update the prior version of the formatted data object to correspond			
19	with the generated formatted data object,			

20	(b) identify a data differential between the formatted data object and the			
21	prior version, and			
22	(c) broadcast the data differential on an output broadcast data channel.			
1	16. The system of claim 15, wherein the information manager is further configured			
2	to:			
3	associate a respective sequence number with formatted data objects stored in the			
4	object storage pool;			
5	increment the respective sequence number during an update to the formatted data			
16	object in the storage pool; and			
¥ 7	broadcast the respective sequence number with the data differential.			
the light that the li	17. The system of claim 15, wherein the formatted data objects are provided to			
and the sum of the sum	subscriber processes via the output broadcast channel.			
	18. The system of claim 15, wherein the information manager is further configured to			
2	select the broadcast channel from a plurality of broadcast channels according to the identified			
3	object type.			
1	19. The system of claim 15, wherein the information manager is further configured to			
2	apply particular formatting rules selected in accordance with the identified object type.			
1	20. The system of claim 15, further comprising at least one client manager connected			
2	to the broadcast channel; the client manager configured to:			

the receipt of a raw event:

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9	determine an object type associated with the raw event; and		
10	generate an external event containing a formatted data object derived from the		
11	contents of the received raw event in accordance with the formatting rules;		
12	an object storage pool configured to store a plurality of formatted data objects therein		
13	an offer pool manager connected to the object storage pool and configured to, upon		
14	receipt of an external event:		
15	(a) determine if a prior v	ersion of the formatted data object is present in an object	
16	storage pool;		
_1 7	(b) if a prior version is pr	resent in the object storage pool:	
7 8 8 8 19 19 19 19 19 19 19 19 19 19 19 19 19	determine a data diffe	erential between the formatted data object and the prior	
19	version,		
20	update the prior versi	on of the formatted data object to correspond with the	
<u> </u>	generated formatted data object, and		
121 U1 U22 H223	broadcast the data dif	ferential on an output broadcast data channel;	
C 123	(c) otherwise, if no prior	version is present in the object storage pool:	
24	provide the formatted	data object to subscriber processes, and	
25	store the formatted da	ata object in the object storage pool.	
1	25. The system of claim 2	24, wherein the offer pool manager is further configured to:	
2	associate a sequence number	with the formatted data object stored in the object storage	
3	pool;		
4	increment the sequence number upon updating the formatted data object; and		
5	broadcast the sequence number associated with the formatted data object with the data		
6	differential.		

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8	each type leaf node having at least one associated object typing rule for identifying				
9	objects of the type associated with the respective type leaf node.				
1 2	31. The system of claim 30, wherein each type leaf node further has at least one associated formatting rule.				
1	32. The system of claim 24, further comprising at least one client manager in				
2	communication with the information manager;				
3	the client manager configured to:				
T 4	receive a particular formatted data object from the offer pool manage				
1 5	store the particular formatted data object in an associated client manager				
receive a particular formatted data object from the offer pool store the particular formatted data object in an associated classical database; receive a data differential for the particular formatted object.					
7	receive a data differential for the particular formatted object via the				
8	broadcast data channel; and				
<u>11</u> 9	update the stored formatted data object in accordance with the received				
<u>-10</u>	data differential.				
1	33. The system of claim 32, wherein the client manager is further configured to				
2	communicate information about the formatted data object stored in the subscriber database to a				
3	remote location.				
1 2	34. The system of claim 24, wherein the raw data object comprises information related to a financial product offering.				